

LISTING OF THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1 through 60. (Cancelled)

Claim 61. (Currently amended) A unit for a conductively heatable glass melt, comprising:

a tank having a wall with a wall opening therethrough;

at least one electrode passing through the wall opening so as to be immersed in the conductively heatable glass melt; and

an apparatus for reducing the local introduction of heating power into at least one region of the wall, wherein the apparatus comprises at least one shielding device arranged in the at least one region of the conductively heatable glass melt adjacent to the at least one electrode and a shielding basket having an interior, wherein the interior of the shielding basket reduces an electric field gradient that occurs in the conductively heatable glass melt immediately adjacent to the at least one electrode.

Claim 62. (Cancelled).

Claim 63. (Previously presented) The unit as claimed in claim 61, wherein the shielding basket has a basket opening through which the at least one electrode passes, wherein the shielding basket has an axis define through the basket opening.

Claim 64. (Previously presented) The unit as claimed in claim 63, wherein the basket opening is arranged in an upper boundary of the shielding basket.

Claim 65. (Previously presented) The unit as claimed in claim 61, wherein the shielding basket is arranged coaxially with respect to the at least one electrode.

Claim 66. (Previously presented) The unit as claimed in claim 61, wherein the shielding basket is rotationally symmetrical in form.

Claim 67. (Previously presented) The unit as claimed in claim 61, wherein the shielding basket has an integrally formed upper boundary.

Claim 68. (Previously presented) The unit as claimed in claim 67, wherein the shielding basket has two rims connected by elements, wherein at least one of the two rims forms the upper boundary.

Claim 69. (Currently amended) The unit as claimed in claim 68, wherein the elements have a longitudinal axis, wherein the longitudinal axis is angled with respect to a surface of the wall that faces the conductively heatable glass melt.

Claim 70. (Previously presented) The unit as claimed in claim 69, wherein the angle has a value in the range from greater than 0° to less than or equal to 90° .

Claim 71. (Previously presented) The unit as claimed in claim 70, wherein the angle has a value in the range from greater than or equal to 30° to less than or equal to 60° .

Claim 72. (Previously presented) The unit as claimed in claim 61, wherein the shielding basket is secured to the at least one electrode.

Claim 73. (Previously presented) The unit as claimed in claim 61, wherein the shielding basket is secured to the wall.

Claim 74. (Previously presented) The unit as claimed in claim 61, wherein the shielding basket comprises a material selected from the group consisting of Mo, W,

SnO₂, at least one precious metal, an alloy of at least one of Mo, W, SnO₂, and a precious metal, a high-temperature-resistant steel, and any combinations thereof.

Claim 75. (Currently amended) The unit as claimed in claim 61, wherein the at least one electrode has a length that is immersed in the conductively heatable glass melt and the shielding basket has a height such that ratio of the length to the height has a value in the range from greater than or equal to 1 to less than or equal to 20.

Claim 76. (Previously presented) The unit as claimed in claim 75, wherein the ratio has a value in the range from greater than or equal to 2 to less than or equal to 5.

Claim 77. (Previously presented) The unit as claimed in claim 61, wherein the shielding basket has a basket radius and the at least one electrode has an electrode radius such that a ratio of the basket radius to the electrode radius has a value in the range from greater than or equal to 2 to less than or equal to 15.

Claim 78. (Previously presented) The unit as claimed in claim 77, wherein the ratio has a value in the range from greater than or equal to 3 to less than or equal to 7.

Claim 79. (Previously presented) The unit as claimed in claim 61, wherein the at least one electrode comprises two electrodes spaced from one another by a distance and the shielding basket has a basket radius such that a ratio of the distance to the basket radius has a value in the range from greater than or equal to 3 to less than or equal to 500.

Claim 80. (Previously presented) The unit as claimed in claim 79, wherein the ratio has a value in the range from greater than or equal to 20 to less than or equal to 80.

Claim 81. (Previously presented) The unit as claimed in claim 79, wherein the shielding basket has an upper rim having a rim width that is greater than or equal to zero and less than or equal to the basket radius.

Claim 82. (Previously presented) The unit as claimed in claim 81, wherein the rim width is less than or equal to one third of the basket radius.

Claim 83. (Previously presented) The unit as claimed in claim 63, wherein the at least one electrode is spaced from an inner boundary of the basket opening by a gap, the gap having a width in the range from greater than or equal to 0 to less than or equal to 50 mm.

Claim 84. (Previously presented) The unit as claimed in claim 83, wherein the width is in the range from greater than or equal to 0 to less than or equal to 30 mm.

Claim 85. (Previously presented) The unit as claimed in claim 61, wherein the shielding basket has a material thickness in the range from greater than or equal to 5 mm to less than or equal to 50 mm.

Claim 86. (Previously presented) The unit as claimed in claim 61, wherein the at least one electrode is spaced from an inner boundary of the wall opening by a gap, the gap having a width in the range from greater than or equal to 1 mm to less than or equal to 30 mm.

Claim 87. (Previously presented) The unit as claimed in preceding claim 86, wherein the width is in the range from greater than or equal to 2 mm to less than or equal to 5 mm.

Claim 88. (Currently amended) The unit as claimed in claim 61, wherein the

wall has a thickness at least in an area where the wall is in contact with the conductively heatable glass melt in the range from greater than or equal to 50 mm to less than or equal to 500 mm.

Claim 89. (Previously presented) The unit as claimed in claim 88, wherein the thickness is in the range from greater than or equal to 100 mm to less than or equal to 300 mm.

Claim 90. (Currently amended) A method for reducing the local introduction of heating power into at least one region of a wall of a unit for a conductively heatable glass melt, comprising:

- passing at least one electrode passing through an opening in the wall so as to be immersed in the conductively heatable glass melt; and

- arranging at least one shielding device and a shielding basket in the conductively heatable glass melt so that the at least one electrode passes through an opening in the shielding basket.

Claim 91. (Currently amended) A unit for a conductively heatable glass melt, comprising:

- a tank having a wall with a wall opening therethrough;
- an electrode passing through the wall opening so as to be immersed in the conductively heatable glass melt within the tank;

- a shielding basket immersed in the conductively heatable glass melt within the tank, the shielding basket having a basket opening and an interior, the electrode passing through the interior and the basket opening, the basket opening having an inner boundary arranged at a predetermined distance from an outer boundary of the electrode; and

- an electrical connection passing through the wall and electrically connecting the shielding basket to an outer region of the electrode.